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Publons / Web Of Science ResearcherID: B-8910-2018

ScopusID: 6603006083

Yoksis Researcher ID: 1369

Education Information

Masters (Non-Thesis, Evening Education), Cukurova University, İktisadi Ve İdari Bilimler Fakültesi, Yönetim Ve Organizasyon, Turkey 2016 - 2017

Undergraduate, Anadolu University, Open Education Faculty, İşletme , Turkey 2013 - 2016

Doctorate, Cukurova University, Fen Bilimleri Enstitüsü, Fizik, Turkey 1995 - 1999

Postgraduate, Cukurova University, Fen Bilimleri, Fizik, Turkey 1992 - 1995

Undergraduate, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, Turkey 1989 - 1992

Foreign Languages

English, C1 Advanced

Certificates, Courses and Trainings

Education Management and Planning, European Research Conference on Frontiers in Particle Astrophysics and Cosmology, Munich, 2001

Education Management and Planning, NATO ASI 2000 Recent Developments in Particle Physics and Cosmology, NATO-ASI, 2000

Education Management and Planning, 27. ITEP Winter School of Physics, ITEP (Institute for Theoretical and Experimental Physics), 1999

Education Management and Planning, Techniques and Concept of High Energy Physics, School -A.B.D Virgin Islands, 1998

Education Management and Planning, European School of High Energy Physics, CERN-JINR, 1996

Education Management and Planning, CERN Summer Student Programme, CERN PH Department, 1993

Dissertations

Doctorate, A Study On Increasing the Sensitivity of the CHORUS Neutrino Detector, Cukurova University, Fen Bilimleri, Yüksek Enerji Ve Plazma, 1999
Postgraduate, CHORUS Nötrino Osilasyon Deneyinde Kullanılan Muon Spektrometresinin Simülasyonu, Cukurova University, Fen Bilimleri, Fizik, 1995

Research Areas

Physics, Nuclear physics, Basic Particles and Areas, Natural Sciences

Academic Titles / Tasks

Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2008 - Continues
Associate Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2003 - 2008
Research Assistant PhD, --Seçiniz--, İsviçre, Cern (European Organization For Nuclear Research, Research Fellow), Ph Dep., 2003 - 2005
Assistant Professor, Cukurova University, Fen-Edebiyat Fakültesi, Fizik, 2000 - 2003

Academic and Administrative Experience

Cukurova University, 2013 - Continues

Courses

Parçacık Fiziği, Undergraduate, 2016 - 2017
Analiz, Undergraduate, 2013 - 2014

Advising Theses

KAYIŞ TOPAKSU A., Classical jet shape measurements in proton-proton collisions at CMS experiment / CMS deneyinde 7x7 TeV'lik proton-proton çarpışmasında jet şekillerinin araştırılması, Doctorate, K.Özdemir(Student), 2014
KAYIŞ TOPAKSU A., Momentum scale calibration of muon momentum tracks using the muon pairs from J/psi decays and installation and commissioning work in CMS at CERN, Doctorate, G.Gökbulut(Student), 2014
KAYIŞ TOPAKSU A., Search For Extra Dimensions with Mono-jet Final States in CMS Proton Collisions at 7 TeV, Doctorate, L.Nükhet(Student), 2011
KAYIŞ TOPAKSU A., Extra GAUGE Bosons in E6 Models, Doctorate, H.Arslan(Student), 2008

Jury Memberships

Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK, February, 2013
Associate Professor Exam, Doçentlik Sınav Jürisi, ÜAK, June, 2012

Published journal articles indexed by SCI, SSCI, and AHCI

- Search for the lepton flavor violating $\tau \rightarrow 3\mu$ decay in proton-proton collisions at $s=13\text{TeV}$**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.853, 2024 (SCI-Expanded)

II. **Search for an exotic decay of the Higgs boson into a Z boson and a pseudoscalar particle in proton-proton collisions at $s=13\text{TeV}$**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.852, 2024 (SCI-Expanded)

III. **Timing performance of the CMS High Granularity Calorimeter prototype**

Acar B., Adamov G., Adloff C., Afanasiev S., Akchurin N., Akgün B., Khan F., Alhusseini M., Alison J., Alpina A., et al.
Journal of Instrumentation, vol.19, no.4, 2024 (SCI-Expanded)

IV. **New Structures in the Formula Presented Mass Spectrum in Proton-Proton Collisions at Formula Presented**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Physical Review Letters, vol.132, no.11, 2024 (SCI-Expanded)

V. **Search for new Higgs bosons via same-sign top quark pair production in association with a jet in proton-proton collisions at $s=13\text{TeV}$**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Hussain P., Jeitler M., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)

VI. **Measurements of azimuthal anisotropy of nonprompt D0 mesons in PbPb collisions at $s_{NN}=5.02\text{TeV}$**

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)

VII. **Study of azimuthal anisotropy of $\Upsilon(1S)$ mesons in pPb collisions at $s_{NN} = 8.16 \text{ TeV}$**

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.

Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, vol.850, 2024 (SCI-Expanded)

VIII. **Search for Scalar Leptoquarks Produced via τ -Lepton-Quark Scattering in pp Collisions at $\sqrt{s}=13 \text{ TeV}$**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Physical review letters, vol.132, no.6, pp.61801, 2024 (SCI-Expanded)

IX. **Muon identification using multivariate techniques in the CMS experiment in proton-proton collisions at $\sqrt{s} = 13 \text{ TeV}$**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.

Journal of Instrumentation, vol.19, no.2, 2024 (SCI-Expanded)

X. **Two-particle Bose-Einstein correlations and their Lévy parameters in PbPb collisions at Formula Presented TeV**

Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., Jeitler M., et al.

Physical Review C, vol.109, no.2, 2024 (SCI-Expanded)

XI. **Search for Inelastic Dark Matter in Events with Two Displaced Muons and Missing Transverse Momentum in Proton-Proton Collisions at $\sqrt{s}=13 \text{ TeV}$**

Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Frühwirth R., et al.

Physical Review Letters, vol.132, no.4, 2024 (SCI-Expanded)

XII. **Evidence for the Higgs Boson Decay to a Z Boson and a Photon at the LHC**

Aad G., Abbott B., Abeling K., Abicht N., Abidi S., Aboulhorma A., Abramowicz H., Abreu H., Abulaiti Y., Acharya B., et al.

Physical review letters, vol.132, no.2, pp.21803, 2024 (SCI-Expanded)

- XIII. **Measurement of the production cross section for a W boson in association with a charm quark in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., Jeitler M., et al.
European Physical Journal C, vol.84, no.1, 2024 (SCI-Expanded)
- XIV. **Measurement of the τ lepton polarization in Z boson decays in proton-proton collisions at (Formula presented.)**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Hussain P., et al.
Journal of High Energy Physics, vol.2024, no.1, 2024 (SCI-Expanded)
- XV. **Luminosity determination using Z boson production at the CMS experiment**
Hayrapetyan A., Tumasyan A., Adam W., Andrejkovic J., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Valle A. E. D., Hussain P., et al.
European Physical Journal C, vol.84, no.1, 2024 (SCI-Expanded)
- XVI. **Observation of triple J/psi meson production in proton-proton collisions**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
NATURE PHYSICS, 2023 (SCI-Expanded)
- XVII. **Nuclear modification of Y states in pPb collisions at root S-NN=5.02 TeV**
Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
PHYSICS LETTERS B, vol.835, 2022 (SCI-Expanded)
- XVIII. **Search for new particles in an extended Higgs sector with four b quarks in the final state at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
PHYSICS LETTERS B, vol.835, 2022 (SCI-Expanded)
- XIX. **The European Spallation Source neutrino super-beam conceptual design report**
Alekou A., Baussan E., Bhattacharyya A. K., Kraljevic N. B., Blennow M., Bogomilov M., Bolling B., Bouquerel E., Buchan O., Burgman A., et al.
EUROPEAN PHYSICAL JOURNAL-SPECIAL TOPICS, vol.231, no.21, pp.3779-3955, 2022 (SCI-Expanded)
- XX. **Evidence for WW/WZ vector boson scattering in the decay channel l nu qq produced in association with two jets in proton-proton collisions at root s=13TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
PHYSICS LETTERS B, vol.834, 2022 (SCI-Expanded)
- XXI. **Measurement of the Higgs boson width and evidence of its off-shell contributions to ZZ production**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
NATURE PHYSICS, vol.18, no.11, 2022 (SCI-Expanded)
- XXII. **Search for a W' boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2022 (SCI-Expanded)
- XXIII. **Search for high-mass resonances decaying to a jet and a Lorentz-boosted resonance in proton-proton collisions at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
PHYSICS LETTERS B, vol.832, 2022 (SCI-Expanded)
- XXIV. **Search for Higgs Boson Pair Production in the Four b Quark Final State in Proton-Proton Collisions**

at root s=13 TeV

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.

PHYSICAL REVIEW LETTERS, vol.129, no.8, 2022 (SCI-Expanded)

- XXV. **Search for long-lived heavy neutral leptons with displaced vertices in proton-proton collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2022 (SCI-Expanded)

- XXVI. **Search for Flavor-Changing Neutral Current Interactions of the Top Quark and Higgs Boson in Final States with Two Photons in Proton-Proton Collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

PHYSICAL REVIEW LETTERS, vol.129, no.3, 2022 (SCI-Expanded)

- XXVII. **Search for new physics in the lepton plus missing transverse momentum final state in proton-proton collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2022 (SCI-Expanded)

- XXVIII. **Identification of hadronic tau lepton decays using a deep neural network**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

JOURNAL OF INSTRUMENTATION, vol.17, no.7, 2022 (SCI-Expanded)

- XXIX. **Observation of the B-c(+) Meson in Pb-Pb and pp Collisions at root s(NN)=5.02 TeV and Measurement of its Nuclear Modification Factor**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

PHYSICAL REVIEW LETTERS, vol.128, no.25, 2022 (SCI-Expanded)

- XXX. **Search for charged-lepton flavor violation in top quark production and decay in pp collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2022 (SCI-Expanded)

- XXXI. **Inclusive nonresonant multilepton probes of new phenomena at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.

PHYSICAL REVIEW D, vol.105, no.11, 2022 (SCI-Expanded)

- XXXII. **Observation of B-s(0) mesons and measurement of the B-s(0)/B+ yield ratio in PbPb collisions at root S-NN=5.02 TeV**

Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

PHYSICS LETTERS B, vol.829, 2022 (SCI-Expanded)

- XXXIII. **Measurement of the production cross section for Z plus b jets in proton-proton collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.

PHYSICAL REVIEW D, vol.105, no.9, 2022 (SCI-Expanded)

- XXXIV. **Search for invisible decays of the Higgs boson produced via vector boson fusion in proton-proton collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.

PHYSICAL REVIEW D, vol.105, no.9, 2022 (SCI-Expanded)

- XXXV. **Search for single production of a vector-like T quark decaying to a top quark and a Z boson in the final state with jets and missing transverse momentum at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2022 (SCI-Expanded)
- XXXVI. **Measurement of the inclusive and differential $t(\bar{t})$ over-bar gamma cross sections in the dilepton channel and effective field theory interpretation in proton-proton collisions at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2022 (SCI-Expanded)
- XXXVII. **Response of a CMS HGCAL silicon-pad electromagnetic calorimeter prototype to 20-300 GeV positrons**
Acar B., Adamov G., Adloff C., Afanasiev S., Akchurin N., Akgun B., Khan F. A., Alhusseini M., Alison J., Alpina A., et al.
JOURNAL OF INSTRUMENTATION, vol.17, no.5, 2022 (SCI-Expanded)
- XXXVIII. **Precision measurement of the W boson decay branching fractions in proton-proton collisions at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
PHYSICAL REVIEW D, vol.105, no.7, 2022 (SCI-Expanded)
- XXXIX. **Search for electroweak production of charginos and neutralinos in proton-proton collisions at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2022 (SCI-Expanded)
- XL. **Measurement of the inclusive $t(\bar{t})$ over-bar production cross section in proton-proton collisions at root s=5.02 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Krammer N., Lechner L., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2022 (SCI-Expanded)
- XLII. **Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2022 (SCI-Expanded)
- XLII. **Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2022 (SCI-Expanded)
- XLIII. **Search for long-lived particles decaying into muon pairs in proton-proton collisions at root s=13 TeV collected with a dedicated high-rate data stream**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2022 (SCI-Expanded)
- XLIV. **Study of dijet events with large rapidity separation in proton-proton collisions at root s=2.76 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2022 (SCI-Expanded)
- XLV. **Using Z Boson Events to Study Parton-Medium Interactions in Pb-Pb Collisions**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R.,

Jeitler M., et al.

PHYSICAL REVIEW LETTERS, vol.128, no.12, 2022 (SCI-Expanded)

- XLVI. **Search for long-lived particles produced in association with a Z boson in proton-proton collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2022 (SCI-Expanded)

- XLVII. **<p>Search for W? resonances in proton-proton collisions at vs=13 TeV using hadronic decays of Lorentz-boosted W bosons</p>**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

PHYSICS LETTERS B, vol.826, 2022 (SCI-Expanded)

- XLVIII. **A new calibration method for charm jet identification validated with proton-proton collision events at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

JOURNAL OF INSTRUMENTATION, vol.17, no.3, 2022 (SCI-Expanded)

- XLIX. **Search for heavy resonances decaying to WW, WZ, or WH boson pairs in a final state consisting of a lepton and a large-radius jet in proton-proton collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

PHYSICAL REVIEW D, vol.105, no.3, 2022 (SCI-Expanded)

- L. **Measurement of the Inclusive and Differential Higgs Boson Production Cross Sections in the Decay Mode to a Pair of tau Leptons in pp Collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

PHYSICAL REVIEW LETTERS, vol.128, no.8, 2022 (SCI-Expanded)

- LI. **Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Fruhwirth R., Jeitler M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2022 (SCI-Expanded)

- LII. **Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Escalante Del Valle A., Fruhwirth R., Jeitler M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2022 (SCI-Expanded)

- LIII. **Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at root s=13 TeV**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Damanakis K., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2022 (SCI-Expanded)

- LIV. **Fragmentation of jets containing a prompt J/psi meson in PbPb and pp collisions at root s(NN)=5.02 TeV**

Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., Lechner L., et al.

PHYSICS LETTERS B, vol.825, 2022 (SCI-Expanded)

- LV. **Study of quark and gluon jet substructure in Z plus jet and dijet events from pp collisions**

Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2022 (SCI-Expanded)

- LVI. **Measurement of double-parton scattering in inclusive production of four jets with low transverse momentum in proton-proton collisions at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2022 (SCI-Expanded)
- LVII. **Evidence for X(3872) in Pb-Pb Collisions and Studies of its Prompt Production at root s(NN)=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.
PHYSICAL REVIEW LETTERS, vol.128, no.3, 2022 (SCI-Expanded)
- LVIII. **Measurement of the inclusive and differential $t(\bar{t})$ over-bar gamma cross sections in the single-lepton channel and EFT interpretation at root s=13 TeV**
Tumasyan A., Adam W., Andrejkovic J. W., Bergauer T., Chatterjee S., Dragicevic M., Del Valle A. E., Fruhwirth R., Jeitler M., Krammer N., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2021 (SCI-Expanded)
- LIX. **Measurement of the top quark mass using events with a single reconstructed top quark in pp collisions at root s=13 TeV**
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- LXI. **Probing effective field theory operators in the associated production of top quarks with a Z boson in multilepton final states at root s=13 TeV**
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- LXIV. **Search for new particles in events with energetic jets and large missing transverse momentum in proton-proton collisions at root s=13 TeV**
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- LXVI. **Measurements of the $pp \rightarrow W^{+/-} \gamma \gamma$ and $pp \rightarrow Z \gamma \gamma$ cross sections at root s=13 TeV and limits on anomalous quartic gauge couplings**
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LXVIII. Observation of Forward Neutron Multiplicity Dependence of Dimuon Acoplanarity in Ultraperipheral Pb-Pb Collisions at root S-NN=5.02 TeV

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LXX. First measurement of the cross section for top quark pair production with additional charm jets using dileptonic final states in pp collisions at root s=13 TeV

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LXXI. Search for top squark production in fully hadronic final states in proton-proton collisions at root s=13 TeV

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LXXII. Search for W ' bosons decaying to a top and a bottom quark at root s=13 TeV in the hadronic final state

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LXXIV. Constraints on the Initial State of Pb-Pb Collisions via Measurements of Z-Boson Yields and Azimuthal Anisotropy at root s(NN)=5.02 TeV

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LXXV. Hard color-singlet exchange in dijet events in proton-proton collisions at root s=13 TeV

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LXXVI. Search for top squarks in final states with two top quarks and several light-flavor jets in proton-proton collisions at root s=13 TeV

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- LXXXVII. **Search for singly and pair-produced leptoquarks coupling to third-generation fermions in proton-proton collisions at root s=13 TeV**
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- LXXXII. **Measurement of the W gamma Production Cross Section in Proton-Proton Collisions at root s=13 TeV and Constraints on Effective Field Theory Coefficients**
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- LXXXIV. **In-medium modification of dijets in PbPb collisions at root s(NN)=5.02 TeV**
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- XCVII. **Measurements of production cross sections of polarized same-sign W boson pairs in association with two jets in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- C. **Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV**

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- CX. **Measurements of production cross sections of WZ and same-sign WW boson pairs in association with two jets in proton-proton collisions at root s=13 TeV**
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- CXV. **Observation of the Production of Three Massive Gauge Bosons at $\sqrt{s}=13$ TeV**

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- CXVI. **Measurement of CKM matrix elements in single top quark t-channel production in proton-proton collisions at $\sqrt{s}=13$ TeV**

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- CXVII. **Studies of Charm Quark Diffusion inside Jets Using Pb-Pb and pp Collisions at $\sqrt{s(NN)}=5.02$ TeV**

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- CXVIII. **Search for supersymmetry in proton-proton collisions at $\sqrt{s}=13$ TeV in events with high-momentum Z bosons and missing transverse momentum**

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- CXIX. **Measurement of the $Y(1S)$ pair production cross section and search for resonances decaying to $Y(1S)\mu^+\mu^-$ in proton-proton collisions at $\sqrt{s}=13$ TeV**

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- CXX. **Pileup mitigation at CMS in 13 TeV data**

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- CXXI. **Measurement of the associated production of a Z boson with charm or bottom quark jets in proton-proton collisions at $\sqrt{s}=13$ TeV**

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- CXXII. **Search for resonant pair production of Higgs bosons in the $b\bar{b}Z\bar{Z}$ channel in proton-proton collisions at $\sqrt{s}=13$ TeV**

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CXXIII. **Measurements of $(t\bar{t})$ over-bar H Production and the CP Structure of the Yukawa Interaction between the Higgs Boson and Top Quark in the Diphoton Decay Channel**

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CXXIV. **Search for a light pseudoscalar Higgs boson in the boosted $\mu\mu\tau\tau$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

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CXXV. **Combination of the W boson polarization measurements in top quark decays using ATLAS and CMS data at $\sqrt{s}=8$ TeV**

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CXXVI. **Measurement of $t(\bar{t})$ normalised multi-differential cross sections in pp collisions at $\sqrt{s}=13$ TeV, and simultaneous determination of the strong coupling strength, top quark pole mass, and parton distribution functions**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

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CXXVII. **The production of isolated photons in PbPb and pp collisions at $\sqrt{s(NN)}=5.02$ TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

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CXXVIII. **Measurement of the cross section for $t(\bar{t})$ over-bar production with additional jets and b jets in pp collisions at $\sqrt{s}=13$ TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (SCI-Expanded)

CXXIX. **Search for charged Higgs bosons decaying into a top and a bottom quark in the all-jet final state of pp collisions at $\sqrt{s}=13$ TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (SCI-Expanded)

CXXX. **Measurement of quark- and gluon-like jet fractions using jet charge in PbPb and pp collisions at 5.02 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2020 (SCI-Expanded)

CXXXI. **Search for disappearing tracks in proton-proton collisions at $\sqrt{s}=13$ TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Dragicevic M., Ero J., Del Valle A. E., Flechl M., Fruhwirth R., et al.

PHYSICS LETTERS B, vol.806, 2020 (SCI-Expanded)

CXXXII. **Determination of the strong coupling constant $\alpha_s(m_Z)$ from measurements of inclusive W⁺/⁻ and Z boson production cross sections in proton-proton collisions at $\sqrt{s}=7$ and 8 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2020 (SCI-Expanded)

CXXXIII. **Strange hadron production in pp and pPb collisions at $\sqrt{s}=5.02$ TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

PHYSICAL REVIEW C, vol.101, no.6, 2020 (SCI-Expanded)

CXXXIV. **Measurement of the cross section for electroweak production of a Z boson, a photon and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on anomalous quartic couplings**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2020 (SCI-Expanded)

CXXXV. **Search for dijet resonances using events with three jets in proton-proton collisions at $\sqrt{s}=13$ TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., Fruehwirth R., et al.

PHYSICS LETTERS B, vol.805, 2020 (SCI-Expanded)

CXXXVI. **Measurement of the top quark forward-backward production asymmetry and the anomalous chromoelectric and chromomagnetic moments in pp collisions at $\sqrt{s}=13$ TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2020 (SCI-Expanded)

CXXXVII. **Identification of heavy, energetic, hadronically decaying particles using machine-learning techniques**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.

JOURNAL OF INSTRUMENTATION, vol.15, no.6, 2020 (SCI-Expanded)

CXXXVIII. **Measurements with silicon photomultipliers of dose-rate effects in the radiation damage of plastic scintillator tiles in the CMS hadron endcap calorimeter**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

JOURNAL OF INSTRUMENTATION, vol.15, no.6, 2020 (SCI-Expanded)

CXXXIX. **A measurement of the Higgs boson mass in the diphoton decay channel**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.

PHYSICS LETTERS B, vol.805, 2020 (SCI-Expanded)

CXL. **Search for direct top squark pair production in events with one lepton, jets, and missing transverse momentum at 13 TeV with the CMS experiment**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2020 (SCI-Expanded)

CXLI. **Measurement of differential cross sections and charge ratios for t-channel single top quark production in proton-proton collisions at $\sqrt{s}=13$ TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.80, no.5, 2020 (SCI-Expanded)

CXLII. **Calibration of the CMS hadron calorimeters using proton-proton collision data at $\sqrt{s}=13$ TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.

JOURNAL OF INSTRUMENTATION, vol.15, no.5, 2020 (SCI-Expanded)

CXLIII. **Search for an excited lepton that decays via a contact interaction to a lepton and two jets in proton-proton collisions at $\sqrt{s}=13$ TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A.

- E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2020 (SCI-Expanded)
- CXLIV. **Study of excited $\Lambda(0)(b)$ states decaying to $\Lambda(0)(b)\pi(+)\pi(-)$ in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
PHYSICS LETTERS B, vol.803, 2020 (SCI-Expanded)
- CXLV. **Running of the top quark mass from proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.
PHYSICS LETTERS B, vol.803, 2020 (SCI-Expanded)
- CXLVI. **Experimental study of different silicon sensor options for the upgrade of the CMS Outer Tracker**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
JOURNAL OF INSTRUMENTATION, vol.15, no.4, 2020 (SCI-Expanded)
- CXLVII. **Measurement of the $t(\bar{t})\text{over-}\bar{b}(b)\text{over-}\bar{b}$ production cross section in the all-jet final state in pp collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.
PHYSICS LETTERS B, vol.803, 2020 (SCI-Expanded)
- CXLVIII. **Search for heavy Higgs bosons decaying to a top quark pair in proton-proton collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2020 (SCI-Expanded)
- CXLIX. **Search for a Narrow Resonance Lighter than 200 GeV Decaying to a Pair of Muons in Proton-Proton Collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
PHYSICAL REVIEW LETTERS, vol.124, no.13, 2020 (SCI-Expanded)
- CL. **Production of $\Lambda(+)(c)$ baryons in proton-proton and lead-lead collisions at $\sqrt{s_{NN}}=5.02\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.
PHYSICS LETTERS B, vol.803, 2020 (SCI-Expanded)
- CLI. **Constraints on the $\chi(c1)$ versus $\chi(c2)$ Polarizations in Proton-Proton Collisions at $\sqrt{s}=8\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., Fruehwirth R., et al.
PHYSICAL REVIEW LETTERS, vol.124, no.16, 2020 (SCI-Expanded)
- CLII. **Measurement of properties of $B(s)(0)s \rightarrow \mu(+)\mu(-)$ decays and search for $B-0 \rightarrow \mu(+)\mu(-)$ with the CMS experiment**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2020 (SCI-Expanded)
- CLIII. **Search for new neutral Higgs bosons through the $H \rightarrow ZA \rightarrow l^+l^-bb$ process in pp collisions at $\sqrt{s}=13\text{TeV}$**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (SCI-Expanded)
- CLIV. **Bose-Einstein correlations of charged hadrons in proton-proton collisions at**

$\sqrt{s}=13\text{ TeV}$

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (SCI-Expanded)

- CLV. **Measurement of top quark pair production in association with a Z boson in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (SCI-Expanded)

- CLVI. **Observation of the $\Lambda(0)(b) \rightarrow J/\psi \Lambda \phi$ decay in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.802, 2020 (SCI-Expanded)

- CLVII. **Search for a heavy pseudoscalar Higgs boson decaying into a 125 GeV Higgs boson and a Z boson in final states with two tau and two light leptons at $\sqrt{s}=13\text{ TeV}$**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (SCI-Expanded)

- CLVIII. **A search for the standard model Higgs boson decaying to charm quarks**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., Fruehwirth R., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (SCI-Expanded)

- CLIX. **Search for supersymmetry in pp collisions at $\sqrt{s}=13\text{ TeV}$ with 137 fb⁻¹ in final states with a single lepton using the sum of masses of large-radius jets**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., Fruehwirth R., et al.

PHYSICAL REVIEW D, vol.101, no.5, 2020 (SCI-Expanded)

- CLX. **Search for lepton flavour violating decays of a neutral heavy Higgs boson to $\mu\tau$ and $e\tau$ in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (SCI-Expanded)

- CLXI. **Search for physics beyond the standard model in multilepton final states in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., Fruehwirth R., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2020 (SCI-Expanded)

- CLXII. **Search for top squark pair production in a final state with two tau leptons in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2020 (SCI-Expanded)

- CLXIII. **Performance of the reconstruction and identification of high-momentum muons in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., Fruehwirth R., et al.

JOURNAL OF INSTRUMENTATION, vol.15, no.2, 2020 (SCI-Expanded)

- CLXIV. **Combined search for supersymmetry with photons in proton-proton collisions at $\sqrt{s}=13\text{ TeV}$**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.801, 2020 (SCI-Expanded)

- CLXV. **Measurement of the top quark pair production cross section in dilepton final states containing one tau lepton in pp collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2020 (SCI-Expanded)

- CLXVI. **Search for production of four top quarks in final states with same-sign or multiple leptons in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.80, no.2, 2020 (SCI-Expanded)

- CLXVII. **Search for Supersymmetry with a Compressed Mass Spectrum in Events with a Soft tau Lepton, a Highly Energetic Jet, and Large Missing Transverse Momentum in Proton-Proton Collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.

PHYSICAL REVIEW LETTERS, vol.124, no.4, 2020 (SCI-Expanded)

- CLXVIII. **Search for light pseudoscalar boson pairs produced from decays of the 125 GeV Higgs boson in final states with two muons and two nearby tracks in pp collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.800, 2020 (SCI-Expanded)

- CLXIX. **Observation of nuclear modifications in W-+/- boson production in pPb collisions at root s(NN)=8.16 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.800, 2020 (SCI-Expanded)

- CLXX. **Evidence for WW production from double-parton interactions in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.80, no.1, 2020 (SCI-Expanded)

- CLXXI. **Search for a charged Higgs boson decaying into top and bottom quarks in events with electrons or muons in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Escalante Del Valle A., Flechl M., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2020 (SCI-Expanded)

- CLXXII. **Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.80, no.1, 2020 (SCI-Expanded)

- CLXXIII. **Measurement of the single top quark and antiquark production cross sections in the t channel and their ratio in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.800, 2020 (SCI-Expanded)

- CLXXIV. **Measurement of the differential Drell-Yan cross section in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2019 (SCI-Expanded)

- CLXXV. **Search for Low-Mass Quark-Antiquark Resonances Produced in Association with a Photon at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, vol.123, no.23, 2019 (SCI-Expanded)
- CLXXVI. **Search for anomalous triple gauge couplings in WW and WZ production in lepton plus jet events in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2019 (SCI-Expanded)
- CLXXVII. **Probing the chiral magnetic wave in pPb and PbPb collisions at root $S_{NN}=5.02$ TeV using charge-dependent azimuthal anisotropies**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICAL REVIEW C, vol.100, no.6, 2019 (SCI-Expanded)
- CLXXVIII. **Pseudorapidity distributions of charged hadrons in xenon-xenon collisions at root $S_{NN}=5.44$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.799, 2019 (SCI-Expanded)
- CLXXIX. **Search for Physics beyond the Standard Model in Events with Overlapping Photons and Jets**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW LETTERS, vol.123, no.24, 2019 (SCI-Expanded)
- CLXXX. **Measurements of differential Z boson production cross sections in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2019 (SCI-Expanded)
- CLXXXI. **Constraints on anomalous HVV couplings from the production of Higgs bosons decaying to tau lepton pairs**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
PHYSICAL REVIEW D, vol.100, no.11, 2019 (SCI-Expanded)
- CLXXXII. **Study of the $B^+ \rightarrow J/\psi(\Lambda_b)\text{over-bar}p$ decay in proton-proton collisions at root $s=8$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2019 (SCI-Expanded)
- CLXXXIII. **Search for long-lived particles using delayed photons in proton-proton collisions at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., Flechl M., et al.
PHYSICAL REVIEW D, vol.100, no.11, 2019 (SCI-Expanded)
- CLXXXIV. **Search for supersymmetry using Higgs boson to diphoton decays at root $s=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2019 (SCI-Expanded)
- CLXXXV. **Search for the production of four top quarks in the single -lepton and opposite -sign dilepton final states in proton -proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2019 (SCI-Expanded)
- CLXXXVI. **Search for new physics in top quark production in dilepton final states in proton-proton collisions**

at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.79, no.11, 2019 (SCI-Expanded)

CLXXXVII. **Search for MSSM Higgs bosons decaying to $\mu^{+}\mu^{-}$ in proton-proton collisions at root s=13TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.

PHYSICS LETTERS B, vol.798, 2019 (SCI-Expanded)

.LXXXVIII. **Combination of CMS searches for heavy resonances decaying to pairs of bosons or leptons**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.

PHYSICS LETTERS B, vol.798, 2019 (SCI-Expanded)

CLXXXIX. **Search for anomalous electroweak production of vector boson pairs in association with two jets in proton-proton collisions at 13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.798, 2019 (SCI-Expanded)

CXC. **Measurement of the top quark Yukawa coupling from $t(\bar{t})$ over-bar kinematic distributions in the lepton plus jets final state in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICAL REVIEW D, vol.100, no.7, 2019 (SCI-Expanded)

CXCI. **Charged-particle angular correlations in XeXe collisions at root s(NN)=5.44 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICAL REVIEW C, vol.100, no.4, 2019 (SCI-Expanded)

CXCII. **Search for supersymmetry in proton-proton collisions at 13 TeV in final states with jets and missing transverse momentum**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2019 (SCI-Expanded)

CXCIII. **Search for a Light Charged Higgs Boson Decaying to a W Boson and a CP-Odd Higgs Boson in Final States with $e\mu\mu$ or $\mu\mu\mu$ in Proton-Proton Collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., Flechl M., et al.

PHYSICAL REVIEW LETTERS, vol.123, no.13, 2019 (SCI-Expanded)

CXCIV. **Measurement of $B\text{-}s(0)$ meson production in pp and PbPb collisions at root S-NN=5.02 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.796, pp.168-190, 2019 (SCI-Expanded)

CXCV. **Search for dark matter in events with a leptoquark and missing transverse momentum in proton-proton collisions at 13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.795, pp.76-99, 2019 (SCI-Expanded)

CXCVI. **Search for charged Higgs bosons in the $H\text{-}+/- \rightarrow \tau(+/-)\nu(\tau)$ decay channel in proton-proton collisions at s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2019 (SCI-Expanded)

CXCVII. **Search for the associated production of the Higgs boson and a vector boson in proton-proton**

collisions at $\sqrt{s}=13$ TeV via Higgs boson decays to leptons

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2019 (SCI-Expanded)

CXCVIII. Measurements of the Higgs boson width and anomalous HVV couplings from on-shell and off-shell production in the four-lepton final state

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

PHYSICAL REVIEW D, vol.99, no.11, 2019 (SCI-Expanded)

CXCIX. Search for a standard model-like Higgs boson in the mass range between 70 and 110 GeV in the diphoton final state in proton-proton collisions at $\sqrt{s}=8$ and 13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.793, pp.320-347, 2019 (SCI-Expanded)

CC. Search for invisible decays of a Higgs boson produced through vector boson fusion in proton-proton collisions at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.793, pp.520-551, 2019 (SCI-Expanded)

CCCI. Search for a low-mass $\tau(-)\tau(+)$ resonance in association with a bottom quark in proton-proton collisions at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Escalante Del Valle A., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2019 (SCI-Expanded)

CCII. Search for associated production of a Higgs boson and a single top quark in proton-proton collisions at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.

PHYSICAL REVIEW D, vol.99, no.9, 2019 (SCI-Expanded)

CCIII. Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.79, no.5, 2019 (SCI-Expanded)

CCIV. Combinations of single-top-quark production cross-section measurements and vertical $f(LV)V(t\bar{b})$ determinations at $\sqrt{s}=7$ and 8 TeV with the ATLAS and CMS experiments

Aaboud M., Aad G., Abbott B., Abbott D. C., Abidinov O., Abud A. A., Abhayasinghe D. K., Abidi S. H., AbouZeid O. S., Abraham N. L., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.5, 2019 (SCI-Expanded)

CCV. Search for a W' boson decaying to a tau lepton and a neutrino in proton-proton collisions at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.

PHYSICS LETTERS B, vol.792, pp.107-131, 2019 (SCI-Expanded)

CCVI. Search for an $L\mu - L\tau$ gauge boson using $Z \rightarrow 4\mu$ events in proton-proton collisions at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.792, pp.345-368, 2019 (SCI-Expanded)

CCVII. Measurement and interpretation of differential cross sections for Higgs boson production at $\sqrt{s}=13$ TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J.,

Escalante Del Valle A., et al.

PHYSICS LETTERS B, vol.792, pp.369-396, 2019 (SCI-Expanded)

CCVIII. Measurement of the energy density as a function of pseudorapidity in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.79, no.5, 2019 (SCI-Expanded)

CCIX. Search for W Boson Decays to Three Charged Pions

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

PHYSICAL REVIEW LETTERS, vol.122, no.15, 2019 (SCI-Expanded)

CCX. Measurements of the pp WZ inclusive and differential production cross sections and constraints on charged anomalous triple gauge couplings at s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2019 (SCI-Expanded)

CCXI. Search for nonresonant Higgs boson pair production in the b(b)over-barb(b)over-bar final state at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2019 (SCI-Expanded)

CCXII. Search for contact interactions and large extra dimensions in the dilepton mass spectra from proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2019 (SCI-Expanded)

CCXIII. Measurements of properties of the Higgs boson decaying to a Wboson pair in pp collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

PHYSICS LETTERS B, vol.791, pp.96-129, 2019 (SCI-Expanded)

CCXIV. Search for heavy neutrinos and third-generation leptoquarks in hadronic states of two leptons and two jets in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2019 (SCI-Expanded)

CCXV. Search for t(t)over-barH production in the H -> b(b)over-bar decay channel with leptonic t(t)over-bar decays in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2019 (SCI-Expanded)

CCXVI. Measurement of nuclear modification factors of gamma(1S)), gamma(2S), and gamma(3S) mesons in PbPb collisions at root s(NN)=5.02 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.

PHYSICS LETTERS B, vol.790, pp.270-293, 2019 (SCI-Expanded)

CCXVII. Search for a heavy resonance decaying to a top quark and a vector-like top quark in the lepton plus jets final state in pp collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.79, 2019 (SCI-Expanded)

- CCXVIII. **Measurement of prompt $\psi(2S)$ production cross sections in proton-lead and proton-proton collisions at $\sqrt{s(NN)}=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.790, pp.509-532, 2019 (SCI-Expanded)
- CCXIX. **Combination of Searches for Higgs Boson Pair Production in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, vol.122, no.12, 2019 (SCI-Expanded)
- CCXX. **Search for Narrow H γ Resonances in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, vol.122, no.8, 2019 (SCI-Expanded)
- CCXXI. **Inclusive search for supersymmetry in pp collisions at $\sqrt{s}=13$ TeV using razor variables and boosted object identification in zero and one lepton final states**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Escalante Del Valle A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2019 (SCI-Expanded)
- CCXXII. **Search for top quark partners with charge $5/3$ in the same-sign dilepton and single-lepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2019 (SCI-Expanded)
- CCXXIII. **Search for a W boson decaying to a vector-like quark and a top or bottom quark in the all-jets final state**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, vol.2019, no.3, 2019 (SCI-Expanded)
- CCXXIV. **Search for supersymmetric partners of electrons and muons in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.790, pp.140-166, 2019 (SCI-Expanded)
- CCXXV. **Measurements of $t(\bar{t})$ differential cross sections in proton-proton collisions at $\sqrt{s}=13$ TeV using events containing two leptons**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2019 (SCI-Expanded)
- CCXXVI. **Measurement of differential cross sections for Z boson pair production in association with jets at $\sqrt{s}=8$ and 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
PHYSICS LETTERS B, vol.789, pp.19-44, 2019 (SCI-Expanded)
- CCXXVII. **Search for new particles decaying to a jet and an emerging jet**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Escalante Del Valle A., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2019 (SCI-Expanded)
- CCXXVIII. **Search for pair production of second-generation leptoquarks at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.

PHYSICAL REVIEW D, vol.99, no.3, 2019 (SCI-Expanded)

CCXXXIX. **Non-Gaussian elliptic-flow fluctuations in PbPb collisions at root S-NN=5.02 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.

PHYSICS LETTERS B, vol.789, pp.643-665, 2019 (SCI-Expanded)

CCXXX. **Search for long-lived particles decaying into displaced jets in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.

PHYSICAL REVIEW D, vol.99, no.3, 2019 (SCI-Expanded)

CCXXXI. **Search for new physics in final states with a single photon and missing transverse momentum in proton-proton collisions at $\sqrt{s}=13$ TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2019 (SCI-Expanded)

CCXXXII. **Search for production of Higgs boson pairs in the four b quark final state using large-area jets in proton-proton collisions at root s 13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2019 (SCI-Expanded)

CCXXXIII. **Search for the Higgs Boson Decaying to Two Muons in Proton-Proton Collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.

PHYSICAL REVIEW LETTERS, vol.122, 2019 (SCI-Expanded)

CCXXXIV. **Search for supersymmetry in events with a photon, a lepton, and missing transverse momentum in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2019 (SCI-Expanded)

CCXXXV. **Search for Dark Matter Particles Produced in Association with a Top Quark Pair at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.

PHYSICAL REVIEW LETTERS, vol.122, no.1, 2019 (SCI-Expanded)

CCXXXVI. **Search for heavy resonances decaying into two Higgs bosons or into a Higgs boson and a W or Z boson in proton-proton collisions at 13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroee J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, 2019 (SCI-Expanded)

CCXXXVII. **Angular analysis of the decay $B^+ \rightarrow K^+ \mu^+ \mu^-$ in proton-proton collisions at root s=8 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

PHYSICAL REVIEW D, vol.98, no.11, 2018 (SCI-Expanded)

CCXXXVIII. **Search for Leptoquarks Coupled to Third-Generation Quarks in Proton-Proton Collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., et al.

PHYSICAL REVIEW LETTERS, vol.121, no.24, 2018 (SCI-Expanded)

CCXXXIX. **Search for pair-produced resonances decaying to quark pairs in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroee J., Del Valle A. E., et al.

PHYSICAL REVIEW D, vol.98, no.11, 2018 (SCI-Expanded)

- CCXL. **Event shape variables measured using multijet final states in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.12, 2018 (SCI-Expanded)

- CCXLI. **Searches for pair production of charginos and top squarks in final states with two oppositely charged leptons in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)

- CCXLII. **Evidence for the Associated Production of a Single Top Quark and a Photon in Proton-Proton Collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

PHYSICAL REVIEW LETTERS, vol.121, no.22, 2018 (SCI-Expanded)

- CCXLIII. **Measurements of Higgs boson properties in the diphoton decay channel in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)

- CCXLIV. **Search for the decay of a Higgs boson in the ll gamma channel in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)

- CCXLV. **Search for supersymmetry in events with a tau lepton pair and missing transverse momentum in proton-proton collisions at root s=13TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)

- CCXLVI. **Search for resonances in the mass spectrum of muon pairs produced in association with b quark jets in proton-proton collisions at root 8 and 13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)

- CCXLVII. **Search for a charged Higgs boson decaying to charm and bottom quarks in proton-proton collisions at root s=8TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.11, 2018 (SCI-Expanded)

- CCXLVIII. **Measurement of jet substructure observables in t(t)-bar events from proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

PHYSICAL REVIEW D, vol.98, no.9, 2018 (SCI-Expanded)

- CCXLIX. **Measurement of the groomed jet mass in PbPb and pp collisions at root s(NN)=5.02 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2018 (SCI-Expanded)

- CCL. **Charged-particle nuclear modification factors in XeXe collisions at root S-NN=5.44 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2018 (SCI-Expanded)

CCLI. Measurement of the production cross section for single top quarks in association with W bosons in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2018 (SCI-Expanded)

CCLII. Search for an exotic decay of the Higgs boson to a pair of light pseudoscalars in the final state with two bquarks and two tau leptons in proton-proton collisions at root s=13 TeV The CMS Collaboration

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

PHYSICS LETTERS B, vol.785, pp.462-488, 2018 (SCI-Expanded)

CCLIII. Precision measurement of the structure of the CMS inner tracking system using nuclear interactions

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

JOURNAL OF INSTRUMENTATION, vol.13, 2018 (SCI-Expanded)

CCLIV. Observation of the Z -> psi l(+)l(-) Decay in pp Collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

PHYSICAL REVIEW LETTERS, vol.121, no.14, 2018 (SCI-Expanded)

CCLV. Search for dark matter produced in association with a Higgs boson decaying to gamma gamma or tau(+)tau(-) at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2018 (SCI-Expanded)

CCLVI. Search for a heavy resonance decaying into a Z boson and a Z or W boson in 2l2q final states at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2018 (SCI-Expanded)

CCLVII. Observation of Higgs Boson Decay to Bottom Quarks

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Ero J., Del Valle A. E., et al.

PHYSICAL REVIEW LETTERS, vol.121, no.12, 2018 (SCI-Expanded)

CCLVIII. Search for additional neutral MSSM Higgs bosons in the tau tau final state in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.9, 2018 (SCI-Expanded)

CCLIX. Elliptic Flow of Charm and Strange Hadrons in High-Multiplicity p plus Pb Collisions at root(NN)-N-s=8.16 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

PHYSICAL REVIEW LETTERS, vol.121, no.8, 2018 (SCI-Expanded)

CCLX. Search for disappearing tracks as a signature of new long-lived particles in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2018 (SCI-Expanded)

- CCLXI. **Observation of the $\chi(b1)(3P)$ and $\chi(b2)(3P)$ and Measurement of their Masses**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, vol.121, no.9, 2018 (SCI-Expanded)
- CCLXII. **Constraining Gluon Distributions in Nuclei Using Dijets in Proton-Proton and Proton-Lead Collisions at $\sqrt{s(NN)}=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroo J., Del Valle A. E., et al.
PHYSICAL REVIEW LETTERS, vol.121, no.6, 2018 (SCI-Expanded)
- CCLXIII. **Search for vector-like T and B quark pairs in final states with leptons at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2018 (SCI-Expanded)
- CCLXIV. **Evidence for associated production of a Higgs boson with a top quark pair in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.8, 2018 (SCI-Expanded)
- CCLXV. **Search for narrow and broad dijet resonances in proton-proton collisions at $\sqrt{s}=13$ TeV and constraints on dark matter mediators and other new particles**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- CCLXVI. **Search for beyond the standard model Higgs bosons decaying into a $b(b)\overline{b}$ pair in pp collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
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- CCLXVII. **Search for R-parity violating supersymmetry in pp collisions at $\sqrt{s}=13$ TeV using bjets in a final state with a single lepton, many jets, and high sum of large-radius jet masses**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.783, pp.114-139, 2018 (SCI-Expanded)
- CCLXVIII. **Observation of proton-tagged, central (semi)exclusive production of high-mass lepton pairs in pp collisions at 13 TeV with the CMS-TOTEM precision proton spectrometer**
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- CCLXIX. **Measurement of the underlying event activity in inclusive Z boson production in proton-proton collisions at $\sqrt{s}=13$ TeV**
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- CCLXX. **Nuclear modification factor of D-0 mesons in PbPb collisions at $\sqrt{s(NN)}=5.02$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.782, pp.474-496, 2018 (SCI-Expanded)
- CCLXXI. **Electroweak production of two jets in association with a Z boson in proton-proton collisions $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.78, no.7, 2018 (SCI-Expanded)

- CCLXXII. **Search for a singly produced third-generation scalar leptoquark decaying to a tau lepton and a bottom quark in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.7, 2018 (SCI-Expanded)

- CCLXXIII. **Search for new physics in events with two soft oppositely charged leptons and missing transverse momentum in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICS LETTERS B, vol.782, pp.440-467, 2018 (SCI-Expanded)

- CCLXXIV. **Search for a massive resonance decaying to a pair of Higgs bosons in the four b quark final state in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICS LETTERS B, vol.781, pp.244-269, 2018 (SCI-Expanded)

- CCLXXV. **Performance of the CMS muon detector and muon reconstruction with proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

JOURNAL OF INSTRUMENTATION, vol.13, 2018 (SCI-Expanded)

- CCLXXVI. **Search for Physics Beyond the Standard Model in Events with High-Momentum Higgs Bosons and Missing Transverse Momentum in Proton-Proton Collisions at 13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICAL REVIEW LETTERS, vol.120, 2018 (SCI-Expanded)

- CCLXXVII. **Measurements of differential cross sections of top quark pair production as a function of kinematic event variables in proton-proton collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

- CCLXXVIII. **Search for dark matter in events with energetic, hadronically decaying top quarks and missing transverse momentum at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

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- CCLXXIX. **Observation of (tt)over-barH Production**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Dragicevic M., Eroe J., Del Valle A. E., et al.

PHYSICAL REVIEW LETTERS, vol.120, no.23, 2018 (SCI-Expanded)

- CCLXXX. **Bose-Einstein correlations in pp, pPb, and PbPb collisions at root s(NN)=0.9-7 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICAL REVIEW C, vol.97, no.6, 2018 (SCI-Expanded)

- CCLXXXI. **Search for t(t)over-barH production in the all-jet final state in proton-proton collisions root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

- CCLXXXII. **Measurement of differential cross sections for the production of top quark pairs and of additional jets in lepton plus jets events from pp collisions at root s=13 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICAL REVIEW D, vol.97, no.11, 2018 (SCI-Expanded)

:CLXXXIII. Search for single production of vector-like quarks decaying to a b quark and a Higgs boson

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

:CLXXXIV. Search for high-mass resonances in dilepton final states in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.6, 2018 (SCI-Expanded)

CCLXXXV. Search for the flavor-changing neutral current interactions of the top quark and the Higgs boson which decays into a pair of b quarks at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

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:CLXXXVI. Evidence for the Higgs boson decay to a bottom quark-antiquark pair

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

PHYSICS LETTERS B, vol.780, pp.501-532, 2018 (SCI-Expanded)

CLXXXVII. Measurement of Prompt D-0 Meson Azimuthal Anisotropy in Pb-Pb Collisions at root S-NN=5.02 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICAL REVIEW LETTERS, vol.120, no.20, 2018 (SCI-Expanded)

:LXXXVIII. Search for supersymmetry in events with one lepton and multiple jets exploiting the angular correlation between the lepton and the missing transverse momentum in proton-proton collisions at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICS LETTERS B, vol.780, pp.384-409, 2018 (SCI-Expanded)

:CLXXXIX. Search for the X(5568) State Decaying into B-s(0)pi(+/-) in Proton-Proton Collisions at root s=8 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroe J., et al.

PHYSICAL REVIEW LETTERS, vol.120, no.20, 2018 (SCI-Expanded)

CCXC. Combination of inclusive and differential t(t)over-bar charge asymmetry measurements using ATLAS and CMS data at root S=7 and 8 TeV

Aaboud M. y., Aad G., Abbott B., Abdinov O., Abeloos B., Abidi S. H., AbouZeid O. S., Abraham N. L., Abramowicz H., Abreu H., et al.

JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2018 (SCI-Expanded)

CCXCI. Measurement of the associated production of a single top quark and a Z boson in pp collisions at, root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

PHYSICS LETTERS B, vol.779, pp.358-384, 2018 (SCI-Expanded)

CCXCII. Search for massive resonances decaying into WW, WZ, ZZ, qW, and qZ with dijet final states at root s=13 TeV

Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.

PHYSICAL REVIEW D, vol.97, no.7, 2018 (SCI-Expanded)

- CCXCIII. **Observation of the Higgs boson decay to a pair of tau leptons with the CMS detector**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 PHYSICS LETTERS B, vol.779, pp.283-316, 2018 (SCI-Expanded)
- CCXCIV. **Search for supersymmetry with Higgs boson to diphoton decays using the razor variables at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 PHYSICS LETTERS B, vol.779, pp.166-190, 2018 (SCI-Expanded)
- CCXCV. **Suppression of Excited gamma States Relative to the Ground State in Pb-Pb Collisions at root s(NN)=5.02 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., Flechl M., et al.
 PHYSICAL REVIEW LETTERS, vol.120, no.14, 2018 (SCI-Expanded)
- CCXCVI. **Constraints on the chiral magnetic effect using charge-dependent azimuthal correlations in pPb and PbPb collisions at the CERN Large Hadron Collider**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 PHYSICAL REVIEW C, vol.97, no.4, 2018 (SCI-Expanded)
- CCXCVII. **Comparing transverse momentum balance of b jet pairs in pp and PbPb collisions at root s(NN)=5.02 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2018 (SCI-Expanded)
- CCXCVIII. **Search for Higgs boson pair production in events with two bottom quarks and two tau leptons in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 PHYSICS LETTERS B, vol.778, pp.101-127, 2018 (SCI-Expanded)
- CCXCIX. **Search for new phenomena in final states with two opposite-charge, same-flavor leptons, jets, and missing transverse momentum in pp collisions at root s=13TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2018 (SCI-Expanded)
- CCC. **Measurement of the inclusive t(t)over-bar cross section in pp collisions root s=5.02 TeV using final states with at least one charged lepton**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.3, 2018 (SCI-Expanded)
- CCCI. **Search for supersymmetry in events with at least three electrons or muons, jets, and missing transverse momentum in proton-proton collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 JOURNAL OF HIGH ENERGY PHYSICS, no.2, 2018 (SCI-Expanded)
- CCCII. **Inclusive Search for a Highly Boosted Higgs Boson Decaying to a Bottom Quark-Antiquark Pair**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
 PHYSICAL REVIEW LETTERS, vol.120, no.7, 2018 (SCI-Expanded)
- CCCIII. **Observation of Electroweak Production of Same-Sign W Boson Pairs in the Two Jet and Two Same-Sign Lepton Final State in Proton-Proton Collisions at root s=13 TeV**
 Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic

- M., Ero J., et al.
PHYSICAL REVIEW LETTERS, vol.120, no.8, 2018 (SCI-Expanded)
- CCCIV. **Search for heavy resonances decaying to a top quark and a bottom quark in the lepton plus jets final state in proton-proton collisions at 13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, vol.777, pp.39-63, 2018 (SCI-Expanded)
- CCCV. **Search for resonant and nonresonant Higgs boson pair production in the $b(b)\overline{b}l\nu l\nu$ final state in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2018 (SCI-Expanded)
- CCCVI. **Search for low mass vector resonances decaying into quark-antiquark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.1, 2018 (SCI-Expanded)
- CCCVII. **Brightness and uniformity measurements of plastic scintillator tiles at the CERN H2 test beam**
Chatrchyan S., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., Van de Klundert M., Van Haevermaet H., Van Mechelen P., Van Spilbeeck A., et al.
JOURNAL OF INSTRUMENTATION, vol.13, 2018 (SCI-Expanded)
- CCCVIII. **Constraints on anomalous Higgs boson couplings using production and decay information in the four-lepton final state**
Sirunyan A. M., Collaboration C. M. S., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
PHYSICS LETTERS B, vol.775, pp.1-24, 2017 (SCI-Expanded)
- CCCIX. **Search for a heavy composite Majorana neutrino in the final state with two leptons and two quarks at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICS LETTERS B, vol.775, pp.315-337, 2017 (SCI-Expanded)
- CCCX. **Search for Evidence of the Type-III Seesaw Mechanism in Multilepton Final States in Proton-Proton Collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogi F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., et al.
PHYSICAL REVIEW LETTERS, vol.119, no.22, 2017 (SCI-Expanded)
- CCCXI. **Search for dark matter produced in association with heavy-flavor quark pairs in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., Flechl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.12, 2017 (SCI-Expanded)
- CCCXII. **Radioactive source calibration test of the CMS Hadron Endcap Calorimeter test wedge with Phase I upgrade electronics**
Chatrchyan S., Sirunyan A. M., Tumasyan A., Litomin A., Mossolov V., Shumeiko N., De Klundert M. V., Van Haevermaet H., Van Mechelen P., Van Spilbeeck A., et al.
JOURNAL OF INSTRUMENTATION, vol.12, 2017 (SCI-Expanded)
- CCCXIII. **Measurement of charged pion, kaon, and proton production in proton-proton collisions at $\sqrt{s}=13$ TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Ero J., Flechl M., et al.
PHYSICAL REVIEW D, vol.96, no.11, 2017 (SCI-Expanded)

- CCCXIV. **Measurements of the associated production of a Z boson and b jets in pp collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.11, 2017 (SCI-Expanded)
- CCCXV. **Measurement of the triple-differential dijet cross section in proton-proton collisions at root s=8 TeV and constraints on parton distribution functions**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.11, 2017 (SCI-Expanded)
- CCCXVI. **Search for black holes and other new phenomena in high-multiplicity final states in proton-proton collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
PHYSICS LETTERS B, vol.774, pp.279-307, 2017 (SCI-Expanded)
- CCCXVII. **Search for associated production of dark matter with a Higgs boson decaying to b(b)over-bar or gamma gamma at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2017 (SCI-Expanded)
- CCCXVIII. **Search for Higgs boson pair production in the bb tau state in proton-proton collisions at root(s)=8 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
PHYSICAL REVIEW D, vol.96, no.7, 2017 (SCI-Expanded)
- CCCXIX. **Search for light bosons in decays of the 125 GeV Higgs boson in proton-proton collisions at root s=8 TeV**
Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.10, 2017 (SCI-Expanded)
- CCCXX. **Search for Charged Higgs Bosons Produced via Vector Boson Fusion and Decaying into a Pair of W and Z Bosons Using pp Collisions at root s=13 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
PHYSICAL REVIEW LETTERS, vol.119, no.14, 2017 (SCI-Expanded)
- CCCXXI. **Search for Supersymmetry in pp Collisions at root s=13 TeV in the Single-Lepton Final State Using the Sum of Masses of Large-Radius Jets**
Sirunyan A. M., Tumasyan A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICAL REVIEW LETTERS, vol.119, no.15, 2017 (SCI-Expanded)
- CCCXXII. **Measurement of the B-+/- Meson Nuclear Modification Factor in Pb-Pb Collisions at root s(NN)=5.02 TeV**
Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
PHYSICAL REVIEW LETTERS, vol.119, no.15, 2017 (SCI-Expanded)
- CCCXXIII. **Search for new phenomena with the M-T2 variable in the all-hadronic final state produced in proton-proton collisions at root s=13TeV**
Sirunyan A. M., Tumasyan A., Johnson A., Adam W., Ambrogio F., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.10, 2017 (SCI-Expanded)
- CCCXXIV. **Search for new phenomena with multiple charged leptons in proton-proton collisions at root s=13TeV**

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.9, 2017 (SCI-Expanded)

CCCXXV. **Search for heavy resonances that decay into a vector boson and a Higgs boson in hadronic final states at root s=13TeV**

Sirunyan A. M., Tumasyan A., Adam W., Ambrogio E., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
EUROPEAN PHYSICAL JOURNAL C, vol.77, no.9, 2017 (SCI-Expanded)

CCCXXVI. **Study of Jet Quenching with Z plus jet Correlations in Pb-Pb and pp Collisions at root s(NN)=5.02 TeV**

Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
PHYSICAL REVIEW LETTERS, vol.119, no.8, 2017 (SCI-Expanded)

CCCXXVII. **Measurement of the top quark mass in the dileptonic t(t)over-bar decay channel using the mass observables M-bl, M-T2, and M-blv in pp collisions at root=8 TeV**

Sirunyan A. M., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICAL REVIEW D, vol.96, no.3, 2017 (SCI-Expanded)

:CCXXVIII. **Measurement of the mass difference between top quark and antiquark in pp collisions at root s=8 TeV**

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
PHYSICS LETTERS B, vol.770, pp.50-71, 2017 (SCI-Expanded)

CCCXXIX. **Search for heavy gauge W ' bosons in events with an energetic lepton and large missing transverse momentum at root s=13TeV**

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.770, pp.278-301, 2017 (SCI-Expanded)

CCCXXX. **Search for heavy resonances decaying into a vector boson and a Higgs boson in final states with charged leptons, neutrinos, and b quarks**

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., et al.
PHYSICS LETTERS B, vol.768, pp.137-162, 2017 (SCI-Expanded)

CCCXXXI. **Multiplicity and rapidity dependence of strange hadron production in pp, pPb, and PbPb collisions at the LHC**

POLATÖZ A., KAYIŞ TOPAKSU A., DUMANOĞLU İ., Collaboration C.
PHYSICS LETTERS B, vol.768, pp.103-129, 2017 (SCI-Expanded)

CCCXXXII. **Relative Modification of Prompt psi(2S) and J/psi Yields from pp to PbPb Collisions at root(S) (NN)=5.02 TeV**

DUMANOĞLU İ., KAYIŞ TOPAKSU A., TUMASYAN A., Wolfgang A., Albert S.
PHYSICAL REVIEW LETTERS, vol.118, pp.1-20, 2017 (SCI-Expanded)

:CCXXXIII. **Search for electroweak production of a vector-like quark decaying to a top quark and a Higgs boson using boosted topologies in fully hadronic final states**

Sirunyan A. M., Tumasyan A., Adam W., Asilar E., Bergauer T., Brandstetter J., Brondolin E., Dragicevic M., Eroo J., Flechl M., et al.
JOURNAL OF HIGH ENERGY PHYSICS, no.4, 2017 (SCI-Expanded)

:CCXXXIV. **Search for high-mass diphoton resonances in proton-proton collisions at 13 TeV and combination with 8 TeV search**

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- CCCXXV. **Search for electroweak production of charginos in final states with two T leptons in pp collisions at root s=8 TeV**
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- CCXXVI. **Measurement of the WZ production cross section in pp collisions at root s=13 TeV**
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- CCXXVII. **Measurement of the t(t)over-bar production cross section using events in the e mu final state in pp collisions at root s=13 TeV**
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- CCXLI. **Phenomenological MSSM interpretation of CMS searches in pp collisions at root s=7 and 8 TeV**
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CCCXCVIII. **The performance of the CMS muon detector in proton-proton collisions at root s=7 TeV at the LHC**

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CCCXCIX. **Measurement of the ratio of the inclusive 3-jet cross section to the inclusive 2-jet cross section in pp collisions at root s=7 TeV and first determination of the strong coupling constant in the TeV range**

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CD. **Measurement of the W+W- cross section in pp collisions at and limits on anomalous WW gamma and WWZ couplings**

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- CDV. **Searches for Higgs bosons in pp collisions at $\sqrt{s}=7$ and 8 TeV in the context of four-generation and fermiophobic models**
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- CDVI. **Measurement of masses in the $t(\bar{t})$ system by kinematic endpoints in pp collisions at $\sqrt{s}=7$ TeV**
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- CDVII. **search for new physics in events with same-sign dileptons and b jets in pp collisions at $\sqrt{s}=8$ TeV**
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- CDX. **Search for heavy resonances in the W/Z-tagged dijet mass spectrum in pp collisions at 7 TeV**
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- CDXI. **Search for a standard-model-like Higgs boson with a mass in the range 145 to 1000 GeV at the LHC**
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CDXIV. Search for long-lived particles in events with photons and missing energy in proton-proton collisions at $\sqrt{s}=7$ TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.

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CDXV. Search for supersymmetry in pp collisions at $\sqrt{s}=7$ TeV in events with a single lepton, jets, and missing transverse momentum

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CDXVI. Search for a Higgs boson decaying into a b-quark pair and produced in association with b quarks in proton-proton collisions at 7 TeV

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CDXVII. Measurement of associated production of vector bosons and top quark-antiquark pairs in pp collisions at $\sqrt{s}=7$ TeV

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CDXVIII. Measurement of the Upsilon(1S), Upsilon(2S), and Upsilon(3S) Polarizations in pp Collisions at $\sqrt{s}=7$ TeV

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CDXIX. Search for Pair Production of Third-Generation Leptoquarks and Top Squarks in pp Collisions at $\sqrt{s}=7$ TeV

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CDXX. Study of the Mass and Spin-Parity of the Higgs Boson Candidate via Its Decays to Z Boson Pairs

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CDXXI. Search for contact interactions in $\mu^{+}\mu^{-}$ events in pp collisions at $\sqrt{s}=7$ TeV

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CDXXII. Search in leptonic channels for heavy resonances decaying to long-lived neutral particles

Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Erö J., Fabjan C., et al.

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CDXXIII. Search for supersymmetry in events with photons and low missing transverse energy in pp collisions at $\sqrt{s}=7$ TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroo J., Fabjan C., et al.

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CDXXIV. Measurement of the sum of WW and WZ production with W plus dijet events in pp collisions at $\sqrt{s}=7$ TeV

$s=7$ TeV

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CDXXV. Search for exotic resonances decaying into WZ/ZZ in pp collisions at root $s=7$ TeV

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CDXXVI. Search for flavor changing neutral currents in top quark decays in pp collisions at 7 TeV

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CDXXVII. Measurement of the cross section and angular correlations for associated production of a Z boson with b hadrons in pp collisions at $\sqrt{s} = 7$ TeV

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CDXXVIII. Studies of jet quenching using isolated-photon plus jet correlations in PbPb and pp collisions at root $s(NN)=2.76$ TeV

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CDXXIX. Search for new physics in events with opposite-sign leptons, jets, and missing transverse energy in pp collisions at root $s=7$ TeV

Chatrchyan S., Collaboration C. M. S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.

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CDXXX. Measurement of the elliptic anisotropy of charged particles produced in PbPb collisions at root $s(NN)=2.76$ TeV

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CDXXXI. Evidence for Associated Production of a Single Top Quark and W Boson in pp Collisions at root $s=7$ TeV

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CDXXXII. Observation of a diffractive contribution to dijet production in proton-proton collisions at root $s = 7$ TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroev J., Fabjan C., et al.

PHYSICAL REVIEW D, vol.87, no.1, 2013 (SCI-Expanded)

CDXXXIII. Observation of long-range, near-side angular correlations in pPb collisions at the LHC

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CDXXXIV. Measurement of the Azimuthal Anisotropy of Neutral Pions in Pb-Pb Collisions at root $S-NN=2.76$ TeV

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- CDXXXVI. **Search for a narrow, spin-2 resonance decaying to a pair of Z bosons in the $q(\bar{q})\ell^+\ell^-$ final state**
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- CDXXXVII. **Search for Heavy Neutrinos and W-R Bosons with Right-Handed Couplings in a Left-Right Symmetric Model in pp Collisions at $\sqrt{s}=7$ TeV**
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- DXXXVIII. **Search for heavy lepton partners of neutrinos in proton-proton collisions in the context of the type III seesaw mechanism**
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- CDXXXIX. **Search for resonant $t(\bar{t})$ production in lepton plus jets events in pp collisions at $\sqrt{s}=7$ TeV**
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- CDXLI. **Measurement of the relative prompt production rate of $\chi(c2)$ and $\chi(c1)$ in pp collisions at $\sqrt{s}=7$ TeV**
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- CDXLII. **Combined search for the quarks of a sequential fourth generation**
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- CDXLV. **Measurement of the top-quark mass in $t(\bar{t})$ events with lepton plus jets final states in pp collisions at $\sqrt{s}=7$ TeV**
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- CDXLVI. **Study of the Dijet Mass Spectrum in $pp \rightarrow W + \text{jets}$ Events at $\sqrt{s}=7$ TeV**
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- CDXLVII. **A New Boson with a Mass of 125 GeV Observed with the CMS Experiment at the Large Hadron Collider**
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- CDL. **Ratios of dijet production cross sections as a function of the absolute difference in rapidity between jets in proton-proton collisions at $\sqrt{s}=7$ TeV**
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- CDLI. **A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s}=7$ TeV**
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- CDLII. **Performance of CMS muon reconstruction in pp collision events at $\sqrt{s}=7$ TeV**
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- CDLIII. **Search for New Physics in the Multijet and Missing Transverse Momentum Final State in Proton-Proton Collisions at $\sqrt{s}=7$ TeV**
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- CDLIV. **Inclusive and differential measurements of the $t(\bar{t})$ over-bar charge asymmetry in proton-proton collisions $\sqrt{s}=7$ TeV**
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- CDLV. **Measurement of the Pseudorapidity and Centrality Dependence of the Transverse Energy Density in Pb-Pb Collisions at $\sqrt{s(NN)}=2.76$ TeV**
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- CDLVI. **Search for heavy Majorana neutrinos in $\mu(+/-)\mu(+/-) + \text{jets}$ and $e(+/-)e(+/-) + \text{jets}$ events in pp collisions at $\sqrt{s}=7$ TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroee J., Fabjan C., et al.
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- CDLVII. **Study of the inclusive production of charged pions, kaons, and protons in pp collisions at root**

$s=0.9, 2.76, \text{ and } 7 \text{ TeV}$

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroee J., Fabjan C., et al.

EUROPEAN PHYSICAL JOURNAL C, vol.72, no.10, 2012 (SCI-Expanded)

- CDLVIII. **Search for supersymmetry in events with b-quark jets and missing transverse energy in pp collisions at 7 TeV**

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroee J., Fabjan C., et al.

PHYSICAL REVIEW D, vol.86, no.7, 2012 (SCI-Expanded)

- CDLIX. **Measurement of the top-quark mass in $t(\bar{t})$ over-bar events with dilepton final states in pp collisions at root $s=7 \text{ TeV}$**

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroee J., Fabjan C., et al.

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- CDLX. **Search for a W' or Techni-rho Decaying into WZ in pp Collisions at root $s=7 \text{ TeV}$**

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PHYSICAL REVIEW LETTERS, vol.109, no.14, 2012 (SCI-Expanded)

- CDLXI. **Search for heavy, top-like quark pair production in the dilepton final state in pp collisions at. root $s=7 \text{ TeV}$**

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

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- CDLXII. **Search for pair production of first- and second-generation scalar leptoquarks in pp collisions at root $s=7 \text{ TeV}$**

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroee J., Fabjan C., et al.

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- CDLXIII. **Search for a fermiophobic Higgs boson in pp collisions at root $s=7 \text{ TeV}$**

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- CDLXIV. **Measurement of the Electron Charge Asymmetry in Inclusive W Production in pp Collisions at root $s=7 \text{ TeV}$**

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PHYSICAL REVIEW LETTERS, vol.109, no.11, 2012 (SCI-Expanded)

- CDLXV. **Search for physics beyond the standard model in events with a Z boson, jets, and missing transverse energy in pp collisions at root $s=7 \text{ TeV}$**

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

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- CDLXVI. **Search for a Light Pseudoscalar Higgs Boson in the Dimuon Decay Channel in pp Collisions at root $s=7 \text{ TeV}$**

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

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- CDLXVII. **Search for high-mass resonances decaying into tau-lepton pairs in pp collisions at root $s=7 \text{ TeV}$**

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.

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- CDLXVIII. **Observation of a new boson at a mass of 125 GeV with the CMS experiment at the LHC**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Aguilo E., Bergauer T., Dragicevic M., Eroee J., Fabjan C., et al.
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- CDLXIX. **Measurement of the underlying event in the Drell-Yan process in proton-proton collisions at root s=7 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
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- CDLXX. **Study of W boson production in PbPb and pp collisions at root s(NN)=2.76 TeV**
 Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroee J., Fabjan C., Friedl M., et al.
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- CDLXXI. **Search for New Physics with Same-Sign Isolated Dilepton Events with Jets and Missing Transverse Energy**
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- CDLXXII. **Search for a light charged Higgs boson in top quark decays in pp collisions at root s=7 TeV**
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- CDLXXIII. **Azimuthal Anisotropy of Charged Particles at High Transverse Momenta in Pb-Pb Collisions at root S-NN=2.76 TeV**
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CDLXXX. **Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s(NN)}=2.76$ TeV**

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CDLXXXI. **Search for large extra dimensions in dimuon and dielectron events in pp collisions at $\sqrt{s}=7$ TeV**

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CDLXXXII. **Search for a Higgs boson in the decay channel $H \rightarrow ZZ^{(*)} \rightarrow q(q)\overline{b}l^{(-)}l^{(+)}$ in pp collisions at $\sqrt{s}=7$ TeV**

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DLXXXIII. **Search for the standard model Higgs boson decaying into two photons in pp collisions at $\sqrt{s}=7$ TeV**

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DLXXXIV. **Search for the standard model Higgs boson decaying to bottom quarks in pp collisions at $\sqrt{s}=7$ TeV**

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CDLXXXV. **Measurement of isolated photon production in pp and PbPb collisions at $\sqrt{s(NN)}=2.76$ TeV**

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.

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DLXXXVI. **Search for the Standard Model Higgs Boson in the Decay Channel $H \rightarrow ZZ \rightarrow 4l$ in pp Collisions at $\sqrt{s}=7$ TeV**

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DLXXXVII. **Study of high- $p(T)$ charged particle suppression in PbPb compared to pp collisions at $\sqrt{s(NN)}=2.76$ TeV**

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DLXXXVIII. **Combined results of searches for the standard model Higgs boson in pp collisions at $\sqrt{s}=7$ TeV**

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DLXXXIX. **Measurement of the charge asymmetry in top-quark pair production in proton-proton collisions at $\sqrt{s}=7$ TeV**

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CDXC. **Search for the standard model Higgs boson decaying to $W+W^-$ in the fully leptonic final state in pp collisions at $\sqrt{s}=7$ TeV**

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CDXCI. Jet production rates in association with W and Z bosons in pp collisions at $\sqrt{s} = 7$ TeV

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CDXCII. Search for the standard model Higgs boson in the $H \rightarrow ZZ \rightarrow 2l2\nu$ channel in pp collisions at $\sqrt{s}=7$ TeV

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CDXCIII. Search for Signatures of Extra Dimensions in the Diphoton Mass Spectrum at the Large Hadron Collider

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CDXCV. Exclusive $\gamma\gamma \rightarrow +\mu\mu$ - production in proton-proton collisions at $\sqrt{s} = 7$ TeV

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CDXCVI. J/ψ and $\psi(2S)$ production in pp collisions at $\sqrt{s}=7$ TeV

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CDXCVII. Measurement of the rapidity and transverse momentum distributions of Z bosons in pp collisions at $\sqrt{s}=7$ TeV

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PHYSICAL REVIEW D, vol.85, no.3, 2012 (SCI-Expanded)

CDXCVIII. Inclusive search for squarks and gluinos in pp collisions at $\sqrt{s}=7$ TeV

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CDXCIX. Performance of tau-lepton reconstruction and identification in CMS

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D. Forward energy flow, central charged-particle multiplicities, and pseudorapidity gaps in W and Z boson events from pp collisions at $\sqrt{s}=7$ TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.

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DI. Search for a Vectorlike Quark with Charge $2/3$ in t plus Z Events from pp Collisions at $\sqrt{s} = 7$ TeV

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- DII. **Measurement of the weak mixing angle with the Drell-Yan process in proton-proton collisions at the LHC**

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PHYSICAL REVIEW D, vol.84, no.11, 2011 (SCI-Expanded)

- DIII. **Search for light resonances decaying into pairs of muons as a signal of new physics**

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- DIV. **Search for Supersymmetry at the LHC in Events with Jets and Missing Transverse Energy**

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- DV. **Measurement of the $t\bar{t}$ production cross section in pp collisions at 7 TeV in lepton plus jets events using b-quark jet identification**

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroë J., Fabjan C., Friedl M., et al.

PHYSICAL REVIEW D, vol.84, no.9, 2011 (SCI-Expanded)

- DVI. **Search for New Physics with a Monojet and Missing Transverse Energy in pp Collisions at $\sqrt{s}=7$ TeV**

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PHYSICAL REVIEW LETTERS, vol.107, no.20, 2011 (SCI-Expanded)

- DVII. **Determination of jet energy calibration and transverse momentum resolution in CMS**

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Ero J., Fabjan C., Friedl M., et al.

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- DVIII. **Measurement of energy flow at large pseudorapidities in pp collisions at $\sqrt{s}=0.9$ and 7 TeV**

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- DIX. **Search for $B\text{-}s(0) \rightarrow \mu^{+}\mu^{-}$ and $B\text{-}0 \rightarrow \mu^{+}\mu^{-}$ Decays in pp Collisions at $\sqrt{s}=7$ TeV**

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- DX. **A search for excited leptons in pp collisions at $\sqrt{s}=7$ TeV**

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- DXI. **Search for resonances in the dijet mass spectrum from 7 TeV pp collisions at CMS**

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- DXII. **Inclusive b-hadron production cross section with muons in pp collisions at $\sqrt{s}=7$ TeV**

Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., Frühwirth R., et al.

Journal of High Energy Physics, vol.2011, no.3, 2011 (SCI-Expanded)

- DXIII. **Measurement of $B\bar{B}$ angular correlations based on secondary vertex reconstruction at $\sqrt{s}=7$ TeV**

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- DXIV. Search for physics beyond the standard model using multilepton signatures in pp collisions at root s=7 TeV**
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- DXV. Measurement of the differential cross section for isolated prompt photon production in pp collisions at 7 TeV**
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- DXVI. Measurement of the B-s(0) Production Cross Section with B-s(0) -> J/psi phi Decays in pp Collisions at root s=7 TeV**
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- DXVII. Search for first generation scalar leptoquarks in the e nu jj channel in pp collisions at root s=7 TeV**
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- DXIX. Measurement of charm production in neutrino charged-current interactions**
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- DXX. Search for Three-Jet Resonances in pp Collisions at root s=7 TeV**
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- DXXI. Measurement of the ratio of the 3-jet to 2-jet cross sections in pp collisions at root s=7 TeV**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DXXII. Measurement of the t-Channel Single Top Quark Production Cross Section in pp Collisions at root s=7 TeV**
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PHYSICAL REVIEW LETTERS, vol.107, no.9, 2011 (SCI-Expanded)
- DXXIII. Indications of Suppression of Excited Upsilon States in Pb-Pb Collisions at root(NN)-N-s=2.76 TeV**
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- DXXIV. Measurement of the Polarization of W Bosons with Large Transverse Momenta in W plus jets Events at the LHC**
Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.
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- DXXV. Measurement of the t(t)-bar production cross section and the top quark mass in the dilepton**

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DXXVI. Search for a W ' boson decaying to a muon and a neutrino in pp collisions at root s=7 TeV

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DXXVII. Search for a heavy bottom-like quark in pp collisions at root s=7 TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.

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DXXVIII. Measurement of W gamma and Z gamma production in pp collisions at root s=7 TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.

PHYSICS LETTERS B, vol.701, no.5, pp.535-555, 2011 (SCI-Expanded)

DXXIX. Search for supersymmetry in events with b jets and missing transverse momentum at the LHC

Chatrchyan S., Khachatryan V., Sirunyan A., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Erö J., Fabjan C., Friedl M., et al.

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DXXX. Measurement of the differential dijet production cross section in proton-proton collisions at root s=7 TeV

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DXXXI. Search for physics beyond the standard model in opposite-sign dilepton events in pp collisions at root s=7 TeV

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DXXXII. Search for Neutral Minimal Supersymmetric Standard Model Higgs Bosons Decaying to Tau Pairs in pp Collisions at root s=7 TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.

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DXXXIII. Search for supersymmetry in events with a lepton, a photon, and large missing transverse energy in pp collisions at root s=7 TeV

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DXXXIV. Search for new physics with same-sign isolated dilepton events with jets and missing transverse energy at the LHC

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.

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DXXXV. Search for Supersymmetry in pp Collisions at root s=7 TeV in Events with Two Photons and Missing Transverse Energy

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroe J., Fabjan C., Friedl M., et al.

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DXXXVI. Measurement of Dijet Angular Distributions and Search for Quark Compositeness in pp Collisions at

root s=7 TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Fabjan C., Friedl M., Fruehwirth R., Ghete V. M., et al.

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DXXXVII. Search for Pair Production of First-Generation Scalar Leptoquarks in pp Collisions at root s=7 TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.

PHYSICAL REVIEW LETTERS, vol.106, no.20, 2011 (SCI-Expanded)

DXXXVIII. Strange particle production in pp collisions at root s=0.9 and 7 TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.

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DXXXIX. Measurement of W+W- production and search for the Higgs boson in pp collisions at root s=7 TeV

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PHYSICS LETTERS B, vol.699, pp.25-47, 2011 (SCI-Expanded)

DXL. First measurement of hadronic event shapes in pp collisions at root s=7 TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.

PHYSICS LETTERS B, vol.699, pp.48-67, 2011 (SCI-Expanded)

DXLI. Measurement of Bose-Einstein correlations in pp collisions at root s=0.9 and 7 TeV

Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., Fruehwirth R., et al.

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DXLII. Study of Z Boson Production in PbPb Collisions at root s(NN)=2.76 TeV

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.

PHYSICAL REVIEW LETTERS, vol.106, no.21, 2011 (SCI-Expanded)

DXLIII. Search for large extra dimensions in the diphoton final state at the Large Hadron Collider

Chatrchyan S., Khachatryan V., Sirunyan A. M., Tumasyan A., Adam W., Bergauer T., Dragicevic M., Eroo J., Fabjan C., Friedl M., et al.

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DXLIV. Search for resonances in the dilepton mass distribution in pp collisions at root s=7 TeV

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DXLV. Search for supersymmetry in pp collisions at 7 TeV in events with jets and missing transverse energy

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DXLVI. Measurement of the lepton charge asymmetry in inclusive W production in pp collisions at root s=7TeV

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DXLVII. Search for a heavy gauge boson W ' in the final state with an electron and large missing transverse energy in pp collisions at root s=7 TeV

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KAYIŞ TOPAKSU A., CB Strateji ve Bütçe Başkanlığı (Kalkınma Bakanlığı) Projesi, CERN'deki CMS Deneyi için Kullanılacak Optik ve Ölçüm Laboratuvarının Kurulması, 2003 - 2004
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Scholarships

Junior Associate(2006-2011), ICTP, İtalya, Other International Organizations, 2006 - 2011
Research Fellow (2003-2005), CERN, Cenevre, İsviçre, Other International Organizations, 2003 - 2005
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Awards

KAYIŞ TOPAKSU A., Fen-Edebiyat Fakülte Birinciliği, Çukurova Üniversitesi, June 1992
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